

PV Distribution System Modeling Workshop – Draft Agenda as of April 18

This one-day workshop, hosted by Sandia National Laboratories, the Electric Power Research Institute (EPRI), and the National Renewable Energy Laboratory, will cover best practices to facilitate integration of PV into the power system. Topics will include technical and policy updates for current interconnection and screening practices and technical dive into the use of advanced inverters to mitigate system impacts.

Start Time	Title	Presenter
7:00 AM	Badging and Registration Opens	
8:00 AM	Welcome, Purpose, and What to Expect	<i>Sandia and NREL</i>
8:15 AM	Current Interconnection and Screening Practices (rules of the road)	
	IEEE1547a and 1547.1a	<i>Aminul Huque, EPRI</i>
	FERC SGIP, Revised 2013	<i>CPUC, (TBC)</i>
	CA Rule 21 Procedure	<i>Tom Bialek, SDG&E</i>
	Screening for Feeder Hosting Capacity	<i>Jeff Smith, EPRI</i>
	DG Screening Tool using Rule21 and FERC	<i>Jean-Sebastien Lacroix, CYME</i>
9:50 AM	Discussion	<i>All</i>
10:00 AM	Networking Break	
10:15 AM	Advanced Inverters: Capabilities and Functionality (future pathways)	
	DOE Perspectives	<i>Guohui Yuan – DOE</i>
	Capabilities of Advanced Inverter	<i>John Berdner-Enphase</i>
	Purpose of Advanced Inverters- mitigation and grid support	<i>Steve Steffel PEPCO (TBC)</i>
	Requirements – Grid Codes	<i>Fraunhofer (TBC)</i>
11:50 AM	Discussion	<i>All</i>
12:00 PM	Lunch Break	
12:15 PM	Working Lunch	
	Effective Grounding	<i>Taylor Hollis, Schneider-electric (TBC) Roger Dugan, EPRI</i>
	Transmission Perspective: LVRT and FRT	<i>Abe Ellis- SNL</i>
1:15 PM	Details for Using Advanced Inverters in DER Applications (deep dive)	
	Advanced Inverter Setting Specifications	<i>Jay Johnson, Sandia</i>
	Communications and control – Autonomous and Central Control	<i>Bill Reaugh, KACO new energy</i>
	Optimization Hosting Capacity with AI Functions	<i>Jeff Smith-EPRI</i>
	Interaction and Coordination with EPS Equipment	<i>Chase Sun, PG&E</i>
2:50 PM	Discussion	<i>All</i>

3:00 PM	Networking Break	
3:15 PM	Modeling Challenges to Consider for Advanced Inverters (implementations)	
	Data and Models for High Penetration Using AI	<i>Roger Dugan, EPRI</i>
	PV System and AI models for Power Flow Analysis?	<i>Robert Broadwater, EDD</i>
	AI Analysis on a Distribution Feeder	<i>EPRI- DOE Project, SNL, Murali Baggu, NREL</i>
	IEEE Test Feeders for AI Analysis	<i>Jason Fuller, PNNL</i>
4:50 PM	Discussion	<i>All</i>
5:00 PM	Break for Dinner	
7:00 PM	Evening Session on Modeling Software Updates	
	Software Vendor – Updates and Perspectives	<i>Robert Broadwater, EDD</i>
	Software Vendor – Updates and Perspectives	<i>Wayne Carr, Milsoft</i>
	<i>Software Vendor – Updates and Perspectives</i>	<i>Jonathan Flinn, SynerGee</i>
	CYME Road Map – AI, Energy Storage Devices and PV Impact analysis	<i>Jean-Sebastien Lacroix, CYME</i>
9:00 PM	Workshop Closing Ceremony	

TBC= To Be Confirmed